SBR No. 20/22-23
DATED 05/09/2022

Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For Other Works)

EE/ELE/Y/BR No. 20/22-23

Date 05/09/22

No. 1st & Final Bill

Division: **Electrical (yelahanka)**

Sub-Division: **Electricals**

Bill Received No. Dated

Divisional Cash Book Voucher No..... Dated.....

Sub Divisional **Job Code :-004-21-000037**

Schedule Docket No.

Head of Account : P-CODE:P0300 D.R.No. :

Name of Work Replacing burntout UG Cables and Deteriorated Street lights by LED Street Lights to Allalsandra ROB Yalahanka Main road Ward No 04

Name of Contractor and Full Address: **M/s Prashanth Electricals.**

Reference to Agreement No:- EE(ele)/YZ/W.O/000007/2021-22 Date 17/11/2021

Certified that the measurements were taken by me on 7/6/22 and recorded of Pages 257240 to 7345 of measurement Book No. 2574/21-22 and that the work is satisfactorily executed.

For PRASHANTH ELECTRICALS

Proprietor

Contractor

T.N. Bandi

Officer-in-charge of work

Certified that the measurement were taken by me on 7/6/22 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Assistant Executive Engineer

Sub-Division Officer

II Memorandum of Payment

1)	Total value of work done or supplies made as per account within	Bill Amount	933350:00
2)	Deduct amount to be held in reserve being .....percent Rs.....	IT 1%	9334:00
3)	" Balance	Lwc 1%	9334:00
4)	Deduct Payment:	CBF 0.1%	933:00
	a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... Amount adjusted towards cash advance recovery of	CGST 1%	8554:00
	b) Payments Now made cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash.	SGST 1%	8554:00
5)	Balance being unpaid value of work done held in reserve.	MD Fine	233338:00
6)	Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.		12091:00
7)	Net amount due to or from Contractor 282138/- unadjustments items.	Deduction	48800:00
8)	Advance to Contractor for materials brought to site (as detailed) within.		
9)	Value of Government materials supplied. 651212/-	by cheque	884550:00
		Total amount adjusted -	

For PRASHANTH ELECTRICALS

Proprietor

Contractor's Signature

Received Rs..... (in words).....

.....

by cash and by adjustment of Payment as per memorandum

(in final settlement of all demands)

(For use in the Office)

Witness

1.

2.

For PRASHANTH ELECTRICALS

Proprietor

Dated Signature of Contractor

Paid by me by Cheque No.....Dated.....

Cash Rs.....

Dated.....

Initials of Officer making payment

P0300. Mandya Steadley

651212/-

ಸ್ವೀಕೃತಿಕ Stamp

ರೂ. 933350:00 ಆಡಿಟ್ ಮಾಡಿ ಸ್ವೀಕರಿಸಿದೆ

ರೂ. 884550:00 ಚೆಕ್ ನೀಡಬಹುದಾಗಿದೆ

282138/- ರೂ. 48800:00 ಹೊಂದಾಣಿಕೆ ಮಾಡಿದೆ

S. Sooryanarayana

ಲೆಕ್ಕ ಅಧೀಕ್ಷಕರು

Executive Engineer

ಕಾ.ಪಾ.ಇ.(ಪ) ಯಲಹಂಕ ವಲಯ

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Sl. No	Description	Unit	Previous Measurement		Present Measurement			Total Upto Date		Remarks
			Qty	Cost	Qty	Rate	Amount	Qty	Cost	
	Name Of Work:- Replacing burntout UG Cables and Deteriorated Street lights by LED Street Lights to Allalsandra ROB Yalahanka Main road Ward No 04									
1	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75 Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source.LED Streetlight 120 Watts	Nos			40	5888.00	235520.00	40	235520.00	
2	Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/ IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in- house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source.LED Floodlight 200W				15	11520.00	172800.00	15	172800.00	
3	Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/ IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with... W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in- house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source.LED Floodlight 240W	Nos			4	11776.00	47104.00	4	47104.00	
4	Supplying and Fixing of mm dia class A GI pipe bracket up to 2 Mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluorescent tube street light fitting of all capacities to GI or CI or rail or RCC pole / wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires.Using 32mm dia G.I.Pipe	No			30	534.00	16020.00	30	16020.00	
5	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.	Eac			59	112.00	6608.00	59	6608.00	
6	Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop- Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/ Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65(Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and/or grommets.260mmx210mmx116mm	No			50	1314.56	65728.00	50	65728.00	
7	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. 2) 50x50x6mm	Pe Mt			18	211.20	3801.60	18	3801.60	
8	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) THREE POLE, 1) 100Amps 25kA.	Eac			3	2899.20	8697.60	3	8697.60	

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9	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete 1) 14SWG	Mtr		99000	0.26	25740.00	99000	25740.00
10	Supplying and fixing hylum plastic sheet 3mm thick with necessary nitches for fixing switches, regulators etc., and fixing on existing wood or metal box using N.F. screws.	Sqcm		8000	0.15	1200.00	8000	1200.00
11	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 4 core 16 sqmm	Mtr		498	96.00	47808.00	498	47808.00
12	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required On wall /Structure 6 sqmm to 16 sqmm	Mtr		498	19.20	9561.60	498	9561.60
13	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694 confirming to latest amendments 10 sqmm	Mtrs		17	73.60	1251.20	17	1251.20
14	Wiring for lighting/power circuit using one of PVC insulated 1100V grade, stranded Aluminium wire single core in open or concealed system of wiring 4 sqmm	Mtrs		395	5.76	2275.20	395	2275.20
15	Hiring of 35 tons capacity Crane for releasing and refixing of High Mast	Hrs		15	350.72	5260.80	15	5260.80
16	Supplay and erection of Single phase Thynstor based smart street light control system consisting of following aquipments 1. Precise turn ON & OFF of street lights on pre programmed data 2. 2 x 16 character LCD display unit to display date, status ON Or OFF , turn ON & OFF time, 4. 3. Keypad to set/edit ON & OFF time as per the end user Microcontroller with Real Time Clock and associated hardware 5. 1 No, SCR 162 amps thyristor module for load switching mounted on an extruded alluminium heat sink 6. Thyristor Driver Card: Driver control circuit to switch ON & OFF the Thyristor module 7. Firmware: Firmware to control the hardware and display the required data 8. Power Supply: AC to DC conversion circuit required for the electronic circuitry and driver control card 9. Enclosure is made out of 18 swg CRCA ms sheet of size H480xW310XD200mm with luvers for Heat dissipation IP65 weather proof metal enclosure 10. Wiring & other components like wiring, connectors ,insulators, Alluminium Bus bar and 2 nos of 125 amps single pole MCB for main power Supply control and Manual On & off operation & etc complete.	Nos		7	20390.40	142732.80	7	142732.80
17	Supplying off1.1 kV, LT Aerial Bunched Cable, confirming to IS-14255: 1995 XLPE insulation Parameter shall be as below 1. Hot Set Test: a) Elongation under Load: 50% (Max) b) Permanent Elongation After Cooloing: 3% (Max) 2. Thermal Aging in oven: a) Tensile Strength: 16 N/mm² (Min) b) Elongation: 375% (Min) 3. Water Absorption Test a) Water absorbed: 0.5 mg/cm² (Max) 4. Carbon Black Content shall be ranging from 2% to 3% . 3 X 25 + 1 X 25 + 1 X 16 SQ.MM (Insulated Messenger cum Neutral)	Per Mtr		497	94.08	46757.76	497	46757.76
18	Stringing of 1.1kV grade aerial bunched 3 core cable of XLPE insulation of size (3x95) (for Phase conductor) + (1x70) (insulated messenger neutral) + (1x25) for street light control.	Mtr		497	14.37	7141.89	497	7141.89
19	LT 2 Pin X Arms - MS (Dwg No. BESCOM/GM/QS&S/32 Dtd 24.11.2018	No		15	55.68	835.20	15	835.20

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20	RCC Pole clamp - MS (Dwg No. BESCOM/GM/QS&S/30 Dtd 24.11.2018)	Nos			15	33.92	508.80	15	508.80	
21	Supplaying of Piercing Connector Suitable for 16 Sqmm - 95 Sqmm AB Cable - Street Light Connections	Nos			30	105.60	3168.00	30	3168.00	
22	Supplaying of Dead End Clamp/Anchor Clamp Assembly 25 to 95 Sqmm Bare Messenger(Exclusive of pole clamp and eye hook)	Nos			4	86.40	345.60	4	345.60	
23	Installation of Insulation piercing connector for main to street light Main:16-95sqmm,Tap :1.5-10sqmm(EP95)	Nos			30	37.76	1132.80	30	1132.80	
24	Fixing of Universal/ Dead end Hook	Nos			4	81.28	325.12	4	325.12	
25	Supplay of Suspension Clamp Assembly 16 to 70 Sqmm Bare Messenger(Exclusive of pole clamp and eye hook) 284845 No	Nos			15	125.44	1881.60	15	1881.60	
26	Erection of Suspension Clamp - 25 to 95 sqmm bare messenger				15	81.28	1219.20	15	1219.20	
	Total Rs						**855424.77**		**855424.77**	
	GST Charges (12% on SR Electrical items) Item No 01 to 15			649376.00			77925.12		77925.12	
	Total Rs						**933349.89**		**933349.89**	

Certificate: 1. Certefied that the Above Work has been carreid out satisfactorily

Assistant Executive Engineer (Elec)
BBMP, Bangalore

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